IN THE CLAIMS:

- 1. (Currently Amended) A method of electromanipulation for effecting substantially simultaneous electroporation coincident with and electromigration of molecules into cells, the method comprising, by applying to a cellular target a preselected electrical waveform-applying an electrical pulse to a cellular target, the application of the pulse commencing at a pulse initiation time and concluding at a pulse termination time, the time between the pulse initiation time and the pulse termination time defining a pulse duration, the application of the electrical pulse occurring during the pulse duration, the electrical pulse further comprising a predetermined waveform, wherein the predetermined waveform further comprises at least two continuous waveform components, wherein each of the at least two continuous waveform components further comprises a predetermined voltage level and a predetermined component duration.
- 2. (Original) The method of claim 1 wherein the preselected electrical waveform comprises at least one curved component.
- 3. (Original) The method of claim 2 wherein the at least one curved component has a duration no greater than five minutes and a maximum amplitude no greater than 10,000 V/cm.
- 4. (Original) The method of claim 2 wherein the at least one curved component increases in amplitude as a function of time.
- 5. (Original) The method of claim 2 wherein the at least one curved component decreases in amplitude as a function of time.
- 6. (Original) The method of claim 1 wherein the preselected electrical waveform further comprises increasing and decreasing curved components.
- 7. (Original) The method of claim 6 wherein the preselected electrical waveform further comprises a substantially constant amplitude component interposed between the increasing and decreasing curved components.
- 8. (Original) The method of claim 2 wherein the preselected electrical waveform further comprises a substantially constant amplitude component.
- 9. (Original) The method of claim 8 wherein the substantially constant amplitude component is applied prior to the at least one curved component.
- 10. (Original) The method of claim 8 wherein the substantially constant amplitude component is applied subsequent to the at least one curved component.
- 11. (Original) The method of claim 1 wherein the preselected electrical waveform comprises at least one linear component.

- 12. (Original) The method of claim 11 wherein the at least one linear component has a duration no greater than five minutes and a maximum amplitude no greater than 10,000 V/cm.
- 13. (Original) The method of claim 11 wherein the at least one linear component increases in amplitude as a function of time.
- 14. (Original) The method of claim 11 wherein the at least one linear component decreases in amplitude as a function of time.
- 15. (Original) The method of claim 11 wherein the preselected electrical waveform further comprises increasing and decreasing linear components.
- 16. (Original) The method of claim 15 wherein the preselected electrical waveform further comprises a substantially constant amplitude component interposed between the increasing and decreasing linear components.
- 17. (Original) The method of claim 11 wherein the preselected electrical waveform further comprises a substantially constant amplitude component.
- 18. (Original) The method of claim 17 wherein the substantially constant amplitude component is applied prior to the at least one linear component,
- 19. (Original) The method of claim 17 wherein the substantially constant amplitude component is applied subsequent to the at least one linear component.
- 20. (Original) The method of claim 1 wherein the preselected electrical waveform comprises a plurality of coincident, substantially rectangular components whereby the latest time that the following rectangular component can begin is substantially simultaneously with the completion of the preceding rectangular component.
- 21. (Original) The method of claim 20 wherein the plurality of coincident, substantially rectangular components are of differing amplitudes.
- 22. (Original) The method of claim 20 wherein the plurality of coincident, substantially rectangular components have durations no greater than five minutes and maximum amplitudes no greater than 10,000 V/cm.
- 23. (Original) The method of claim 1 wherein the preselected electrical waveform has an amplitude less than 0.
- 24. (Original) The method of claim 1 wherein the preselected electrical waveform is administered in series.
- 25. (Original) The method of claim 24 wherein at least two preselected electrical waveforms in the pulse are of differing shape.